

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 **Claims 1-15 (Cancelled)**

1 **Claim 16 (Currently amended):** An appliance
2 maintenance apparatus ~~as set forth in claim 1 or 9, which~~
3 ~~further comprises for maintaining a plurality of appliances~~
4 ~~each including a plurality of light indicators respectively~~
5 ~~emitting lights showing the operation states of each of~~
6 ~~said appliances, comprising:~~

7 ~~light detecting means for detecting said lights~~
8 ~~emitted from said light indicators,~~

9 a remote diagnosis control unit for remotely
10 diagnosing said one or more appliances, a communication
11 unit for communicating with said remote diagnosis control
12 unit, and

13 a communication cable operatively connected to
14 said remote diagnosis control unit and said communication
15 unit to ensure communication between said remote diagnosis
16 control unit and said communication unit.

1 **Claims 17-18 (Cancelled)**

1 **Claim 19 (Currently amended):** An appliance remote
2 maintenance system ~~as set forth in claim 17 for maintaining~~
3 a plurality of appliances from a remote location, each of
4 said appliances including a plurality of light indicators
5 respectively emitting lights showing the operation states
6 of each of said appliances, comprising:

7 an appliance maintenance apparatus including
8 light detecting means for detecting said lights emitted
9 from said light indicators, said lights collectively form
10 light information, and information transmitting means for
11 transmitting said light information detected by said light
12 detecting means through a public network, and

13 a remote diagnosis control apparatus including
14 information receiving means for receiving said information
15 transmitted from said information transmitting means
16 through said public network to ensure the remote diagnosis
17 controls of said appliances;

18 in which wherein said appliances have a common
19 reset switch for resetting the operations of said
20 appliances, and

21 in which said remote diagnosis control apparatus
22 further comprises judging means for judging whether to
23 operate said reset switch after diagnosing said operation
24 states of said appliances on the basis of said light
25 information detected by said light detecting means and
26 instruction transmitting means for transmitting through

27 said public network to said appliance maintenance apparatus
28 an instruction to operate said reset switch when said
29 judging means judges to operate said reset switch,
30 said appliance maintenance apparatus further
31 comprises instruction receiving means for receiving said
32 instruction transmitted from said instruction transmitting
33 means through said public network and reset switch
34 operating means for operating said reset switch in
35 compliance with said instruction transmitted from said
36 instruction transmitting means and received by said
37 instruction receiving means.

1 **Claim 20 (Currently amended):** An appliance remote
2 maintenance system as set forth in claim ~~18~~ or 19, in which
3 each of said appliances includes a base plate having one
4 side surface on which said light indicators are provided,
5 and which further comprises:

6 a housing formed with an opening and
7 accommodating a plurality of said base plates, said light
8 indicators on said one side surface of the base plates
9 being aligned with one another on said opening of said
10 housing, and

11 a front cover plate having an inner surface and
12 positioned to cover said opening of said housing with said
13 inner surface opposing said opening of said housing, said
14 inner surface having a plurality of said light receiving

15 elements provided thereon in face-to-face and spaced
16 relationship with said light indicators.

1 **Claim 21 (Original):** An appliance remote maintenance
2 system as set forth in claim 20, in which said reset switch
3 is provided on said one side surface of said base plate,
4 and said reset switch operating means is provided on said
5 inner surface of said front cover plate in face-to-face and
6 spaced relationship with said reset switch.

1 **Claim 22 (Currently amended):** An appliance remote
2 maintenance system ~~a set forth in 17, for maintaining a~~
3 plurality of appliances from a remote location, each of
4 said appliances including a plurality of light indicators
5 respectively emitting lights showing the operation states
6 of each of said appliances, comprising:

7 an appliance maintenance apparatus including
8 light detecting means for detecting said lights emitted
9 from said light indicators, said lights collectively form
10 light information, and information transmitting means for
11 transmitting said light information detected by said light
12 detecting means through a public network, and
13 a remote diagnosis control apparatus including
14 information receiving means for receiving said information
15 transmitted from said information transmitting means

16 through said public network to ensure the remote diagnosis
17 controls of said appliances;

18 in which wherein each of said appliances has a
19 reset switch for resetting the operation of said appliance,
20 and in which

21 said remote diagnosis control apparatus further
22 comprises judging means for judging whether to operate said
23 reset switch after diagnosing said operation states of said
24 appliance on the basis of said light information detected
25 by said light detecting means, and instruction transmitting
26 means for transmitting through said public network to said
27 appliance maintenance apparatus an instruction to operate
28 said reset switch when said judging means judges to operate
29 said reset switch,

30 said appliance maintenance apparatus further
31 comprises instruction receiving means for receiving said
32 instruction transmitted from said instruction transmitting
33 means through said public network, and reset switch
34 operating means for operating said reset switch in
35 compliance with said instruction transmitted from said
36 instruction transmitting means and received by said
37 instruction receiving means.

1 **Claim 23 (Original):** An appliance remote maintenance
2 system as set forth in claim 22, in which each of said
3 appliances includes a base plate having one side surface on

4 which said light indicators are provided, and which further
5 comprises:

6 a housing formed with an opening and
7 accommodating a plurality of said base plates, said light
8 indicators on said one side surface of the base plates
9 being aligned with one another on said opening of said
10 housing, and

11 a front cover plate having an inner surface and
12 positioned to cover said opening of said housing with said
13 inner surface opposing said opening of said housing, said
14 inner surface having a plurality of said light receiving
15 elements provided thereon in face-to-face and spaced
16 relationship with said light indicators.

1 **Claim 24 (Original):** An appliance remote maintenance
2 system as set forth in claim 23, in which said reset
3 switches are provided on said one side surface of said base
4 plate, and said reset switch operating means is provided on
5 said inner surface of said front cover plate in
6 face-to-face and spaced relationship with said light
7 indicators.

1 **Claims 25-26 (Cancelled)**

1 **Claim 27 (Currently amended):** An appliance remote
2 maintenance system ~~as set forth in claim 25, for~~
3 maintaining an appliance from a remote location, said
4 appliance including a plurality of light indicators
5 emitting lights showing the operation states of said
6 appliance, comprising:

7 an appliance maintenance apparatus including
8 light detecting means for detecting said lights emitted
9 from said light indicators, said lights collectively form
10 light information, and information transmitting means for
11 transmitting said light information detected by said light
12 detecting means through a public network, and

13 a remote diagnosis control apparatus including
14 information receiving means for receiving said information
15 transmitted from said information transmitting means
16 through said public network to ensure the remote diagnosis
17 control of said appliance,

18 in which wherein said appliance has a reset
19 switch for resetting the operation of said appliance, and
20 in which

21 said remote diagnosis control apparatus further
22 comprises judging means for judging whether to operate said
23 reset switch after diagnosing said operation states of said
24 appliance on the basis of said light information detected
25 by said light detecting means, and instruction transmitting
26 means for transmitting through said public network to said

27 appliance maintenance apparatus an instruction to operate
28 said reset switch when said judging means judges to operate
29 said reset switch,

30 said appliance maintenance apparatus further
31 comprises instruction receiving means for receiving said
32 instruction transmitted from said instruction transmitting
33 means through said public network, and reset switch
34 operating means for operating said reset switch in
35 compliance with said instruction transmitted from said
36 instruction transmitting means and received by said
37 instruction receiving means.

1 **Claim 28 (Currently amended):** An appliance remote
2 maintenance system as set forth in claim ~~26~~ or 27, in which
3 said appliance includes a base plate having one side
4 surface on which said light indicators are provided, and
5 which further comprises:

6 a housing formed with an opening and
7 accommodating said base plate, said light indicators on
8 said one side surface of the base plate on said opening of
9 said housing, and

10 a front cover plate having an inner surface and
11 positioned to cover said opening of said housing with said
12 inner surface opposing said opening of said housing, said
13 inner surface having a plurality of said light receiving

1 elements provided thereon in face-to-face and spaced
2 relationship with said light indicators.

3 **Claim 29 (Original):** An appliance remote maintenance
4 system as set forth in claim 28 in which said reset switch
5 is provided on said one side surface of said base plate,
6 and said reset switch operating means is provided on said
7 inner surface of said front cover plate in face-to-face and
8 spaced relationship with said reset switch.

1 **Claims 30-31 (Cancelled)**